

# FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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| NOA PISTON RING SPECIFICATION |       |                |        |   |       |             |   |      |               | NOA PISTON SPECIFICATION  |           |          |            |                   |          |  |
|-------------------------------|-------|----------------|--------|---|-------|-------------|---|------|---------------|---------------------------|-----------|----------|------------|-------------------|----------|--|
| ENGINE MODEL                  | C Y L | ENGINE SIZE CC | DIA mm | PISTON RING PART #                        | P S T | PISTON RING |   |      | PISTON PART # | PISTON INFORMATION        |           |          |            | PISTON PIN        |          |  |
|                               |       |                |        |   |       | B mm        | x | T mm |               | BORE mm                   | LENGTH mm | COMP. mm | + DIST. mm | LENGTH            | DIAMETER |  |
| FUEL                          |       |                |        | OEM #                                     |       |             |   |      | OEM #         |                           |           |          |            |                   |          |  |
| <b>NISSAN</b>                 |       |                |        |   |       |             |   |      |               |                           |           |          |            |                   |          |  |
| D11 (A10)                     | 4     | 988            | 73.00  | SWN30026ZZ                                | 1     | 2.00        | x | 3.00 | DISCONTINUE   | 73.00                     | 67.40     | 32.45    |            |                   |          |  |
| GASOLINE                      |       |                |        | 12033-A6200<br>12033-B3040<br>12033-H6200 | 2     | 2.00        | x | 3.00 | 12010-18021   | TOTAL CLEARANCE           |           |          |            | 65.50 mm          |          |  |
|                               |       |                |        |   | 3     |             |   |      |               | mm                        |           |          |            |                   |          |  |
|                               |       |                |        |   | O1    | 4.00        | x | 3.05 | 12010-H2301   | Measure for CYL Clearance |           |          |            | 17.46 mm          |          |  |
|                               |       |                |        |   | O2    |             |   |      | 12010-H2361   | mm                        |           |          |            |                   |          |  |
|                               |       |                |        |   |       |             |   |      |               | from bottom of Skirt.     |           |          |            |                   |          |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          | CirClip    | SURFACE TREATMENT |          |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          | NONE       | HEAD:             | NONE     |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          |            | SKIRT:            | NONE     |  |
| A12                           | 4     | 1171           | 75.00  | SWN30073ZZ                                | 1     | 2.00        | x | 3.20 | DISCONTINUE   | 75.00                     | 67.20     | 32.50    |            |                   |          |  |
| GASOLINE                      |       |                |        | 12033-H8500                               | 2     | 2.00        | x | 3.20 | 12010-H9012   | TOTAL CLEARANCE           |           |          |            | 63.00 mm          |          |  |
|                               |       |                |        |   | 3     |             |   |      |               | mm                        |           |          |            |                   |          |  |
|                               |       |                |        |   | O1    | 4.00        | x | 3.00 | 12010-H9022   | Measure for CYL Clearance |           |          |            | 19.00 mm          |          |  |
|                               |       |                |        |   | O2    |             |   |      |               | mm                        |           |          |            |                   |          |  |
|                               |       |                |        |   |       |             |   |      |               | from bottom of Skirt.     |           |          |            |                   |          |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          | CirClip    | SURFACE TREATMENT |          |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          | NONE       | HEAD:             | NONE     |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          |            | SKIRT:            | NONE     |  |
| A12                           | 4     | 1171           | 75.00  | SWN30073ZZ                                | 1     | 2.00        | x | 3.20 | DISCONTINUE   | 75.00                     | 67.20     | 32.50    | -          | 3.00              |          |  |
| GASOLINE                      |       |                |        | 12033-H8500                               | 2     | 2.00        | x | 3.20 | 12010-H9502   | TOTAL CLEARANCE           |           |          |            | 63.00 mm          |          |  |
|                               |       |                |        |   | 3     |             |   |      |               | mm                        |           |          |            |                   |          |  |
|                               |       |                |        |   | O1    | 4.00        | x | 3.00 | 12010-H9512   | Measure for CYL Clearance |           |          |            | 19.00 mm          |          |  |
|                               |       |                |        |   | O2    |             |   |      |               | mm                        |           |          |            |                   |          |  |
|                               |       |                |        |   |       |             |   |      |               | from bottom of Skirt.     |           |          |            |                   |          |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          | CirClip    | SURFACE TREATMENT |          |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          | NONE       | HEAD:             | NONE     |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          |            | SKIRT:            | NONE     |  |
| A12                           | 4     | 1171           | 75.00  | SWN20073ZZ                                | 1     | 2.00        | x | 3.20 | DISCONTINUE   | 75.00                     | 67.20     | 32.50    | -          | 2.40              |          |  |
| GASOLINE                      |       |                |        | 12033-H8500                               | 2     | 2.00        | x | 3.20 | 12010-H8511   | TOTAL CLEARANCE           |           |          |            | 63.00 mm          |          |  |
|                               |       |                |        |   | 3     |             |   |      |               | mm                        |           |          |            |                   |          |  |
|                               |       |                |        |   | O1    | 4.00        | x | 3.00 | 12010-H8521   | Measure for CYL Clearance |           |          |            | 19.00 mm          |          |  |
|                               |       |                |        |   | O2    |             |   |      |               | mm                        |           |          |            |                   |          |  |
|                               |       |                |        |   |       |             |   |      |               | from bottom of Skirt.     |           |          |            |                   |          |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          | CirClip    | SURFACE TREATMENT |          |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          | NONE       | HEAD:             | NONE     |  |
|                               |       |                |        |   |       |             |   |      |               |                           |           |          |            | SKIRT:            | NONE     |  |

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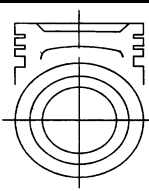

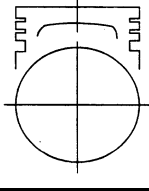
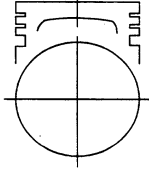
| NOA PISTON RING SPECIFICATION |       |                |        |   |       |                  |   |      |               | NOA PISTON SPECIFICATION          |                   |          |             |                   |          |
|-------------------------------|-------|----------------|--------|---|-------|------------------|---|------|---------------|-----------------------------------|-------------------|----------|-------------|-------------------|----------|
| ENGINE MODEL                  | C Y L | ENGINE SIZE CC | DIA mm | PISTON RING PART #  | P S T | PISTON RING B mm | x | T mm | PISTON PART # | PISTON INFORMATION BORE mm        | LENGTH mm         | COMP. mm | + DIST. mm  | PISTON PIN LENGTH |          |
| FUEL                          |       |                |        | OEM #   |       |                  |   |      | OEM #         |                                   |                   |          |             | DIAMETER          |          |
| <b>NISSAN</b>                 |       |                |        |   |       |                  |   |      |               |                                   |                   |          |             |                   |          |
| A12                           | 4     | 1189           | 73.00  | SWN30026ZZ  | 1     | 2.00             | x | 3.00 | DISCONTINUE   | 73.00                             | 67.40             | 32.45    | -           | 1.60              | 65.50 mm |
| GASOLINE                      |       |                |        | 12033-A6200<br>12033-B3040<br>12033-H6200                               | 2     | 2.00             | x | 3.00 | 12010-H1001   | TOTAL CLEARANCE                   |                   |          |             |                   |          |
|                               |       |                |        |   | 3     |                  |   |      |               | mm                                |                   |          |             |                   |          |
|                               |       |                |        |   | O1    | 4.00             | x | 3.05 | 12010-H1011   | Measure for CYL Clearance         |                   |          | 17.46 mm    |                   |          |
|                               |       |                |        |   | O2    |                  |   |      | 12010-H1061   | mm<br>from bottom of Skirt.       |                   |          |             |                   |          |
|                               |       |                |        |   |       |                  |   |      |               | CirClip                           | SURFACE TREATMENT |          | HEAD: NONE  | SKIRT: NONE       |          |
|                               |       |                |        |   |       |                  |   |      |               | NONE                              |                   |          | SKIRT: NONE |                   |          |
| A13                           | 4     | 1270           | 73.00  | SWN30026ZZ  | 1     | 2.00             | x | 3.00 | DISCONTINUE   | 73.00                             | 67.40             | 32.45    | -           | 0.60              | 65.50 mm |
| GASOLINE                      |       |                |        | 12033-A6200<br>12033-B3040<br>12033-H6200                               | 2     | 2.00             | x | 3.00 | 12010-H6201   | TOTAL CLEARANCE                   |                   |          |             |                   |          |
|                               |       |                |        |   | 3     |                  |   |      |               | mm                                |                   |          |             |                   |          |
|                               |       |                |        |   | O1    | 4.00             | x | 3.05 | 12010-H6211   | Measure for CYL Clearance         |                   |          | 17.46 mm    |                   |          |
|                               |       |                |        |   | O2    |                  |   |      |               | mm<br>from bottom of Skirt.       |                   |          |             |                   |          |
|                               |       |                |        |   |       |                  |   |      |               | CirClip                           | SURFACE TREATMENT |          | HEAD: NONE  | SKIRT: NONE       |          |
|                               |       |                |        |   |       |                  |   |      |               | NONE                              |                   |          | SKIRT: NONE |                   |          |
| A15                           | 4     | 1487           | 76.00  | SWN30052ZZ  | 1     | 1.20             | x | 3.10 | DISCONTINUE   | 76.00                             | 65.00             | 30.00    | -           | 5.50              | 63.00 mm |
| GASOLINE                      |       |                |        | 12033-H7680<br>12033-H9800<br>12033-H9810<br>12033-H9915<br>12033-H9918 | 2     | 2.00             | x | 3.40 | 12010-H9714   | TOTAL CLEARANCE                   |                   |          |             |                   |          |
|                               |       |                |        |   | 3     |                  |   |      |               | mm                                |                   |          |             |                   |          |
|                               |       |                |        |   | O1    | 4.00             | x | 3.30 |               | Measure for CYL Clearance         |                   |          | 19.00 mm    |                   |          |
|                               |       |                |        |   | O2    |                  |   |      |               | mm<br>from bottom of Skirt.       |                   |          |             |                   |          |
|                               |       |                |        |   |       |                  |   |      |               | CirClip                           | SURFACE TREATMENT |          | HEAD: NONE  | SKIRT: NONE       |          |
|                               |       |                |        |   |       |                  |   |      |               | NONE                              |                   |          | SKIRT: NONE |                   |          |
| A15                           | 4     | 1487           | 76.00  | SWN30052ZZ  | 1     | 1.20             | x | 3.10 | 11-049        | 76.00                             | 65.00             | 30.00    | -           | 6.50              | 63.00 mm |
| GASOLINE                      |       |                |        | 12033-H7680<br>12033-H9800<br>12033-H9810<br>12033-H9915<br>12033-H9918 | 2     | 2.00             | x | 3.40 | 12010-H9802   | TOTAL CLEARANCE                   |                   |          |             |                   |          |
|                               |       |                |        |   | 3     |                  |   |      |               | -0.04 mm                          |                   |          |             |                   |          |
|                               |       |                |        |   | O1    | 4.00             | x | 3.30 |               | Measure for CYL Clearance         |                   |          | 19.00 mm    |                   |          |
|                               |       |                |        |   | O2    |                  |   |      |               | 10.00 mm<br>from bottom of Skirt. |                   |          |             |                   |          |
|                               |       |                |        |   |       |                  |   |      |               | CirClip                           | SURFACE TREATMENT |          | HEAD: NONE  | SKIRT: NONE       |          |
|                               |       |                |        |   |       |                  |   |      |               | NONE                              |                   |          | SKIRT: NONE |                   |          |
|                               |       |                |        |   |       |                  |   |      |               | T01                               |                   |          | SKIRT: NONE |                   |          |
|                               |       |                |        |   |       |                  |   |      |               |                                   |                   |          |             |                   |          |

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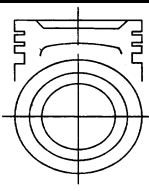
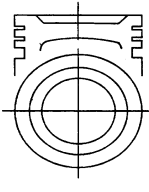
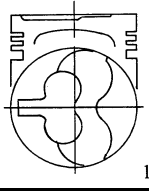
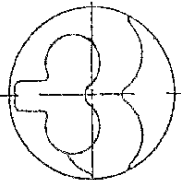
| NOA PISTON RING SPECIFICATION |       |                |        |                    |       |                  |   |      |   | NOA PISTON SPECIFICATION   |                   |          |            |                   |  |
|-------------------------------|-------|----------------|--------|--------------------|-------|------------------|---|------|---|----------------------------|-------------------|----------|------------|-------------------|--|
| ENGINE MODEL                  | C Y L | ENGINE SIZE CC | DIA mm | PISTON RING PART # | P S T | PISTON RING B mm | x | T mm | PISTON PART #   | PISTON INFORMATION BORE mm | LENGTH mm         | COMP. mm | + DIST. mm | PISTON PIN LENGTH |  |
| FUEL                          |       |                |        | OEM #              |       |                  |   |      | OEM #   |                            |                   |          |            | DIAMETER          |  |
| <b>NISSAN</b>                 |       |                |        |                    |       |                  |   |      |   |                            |                   |          |            |                   |  |
| A15                           | 4     | 1487           | 76.00  | SWN30052ZZ         | 1     | 1.20             | x | 3.10 | 11-3208   | 76.00                      | 65.00             | 30.00    | -          | 2.80              |  |
| GASOLINE                      |       |                |        |                    | 2     | 2.00             | x | 3.40 | 12010-H9704   | TOTAL CLEARANCE            |                   |          |            | 63.00 mm          |  |
|                               |       |                |        |                    | 3     |                  |   |      |   | -0.04 mm                   |                   |          |            |                   |  |
|                               |       |                |        |                    | O1    | 4.00             | x | 3.30 |   | Measure for CYL Clearance  |                   |          | 19.00 mm   |                   |  |
|                               |       |                |        |                    | O2    |                  |   |      |   | mm                         |                   |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   | from bottom of Skirt.      |                   |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      | <br>10   | CirClip                    | SURFACE TREATMENT |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   | NONE                       | HEAD:             | NONE     |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   | T05                        | SKIRT:            | NONE     |            |                   |  |
| A15S                          | 4     | 1487           | 76.00  | SWN30052ZZ         | 1     | 1.20             | x | 3.10 | DISCONTINUE   | 76.00                      | 65.00             | 30.00    | -          | 6.50              |  |
| GASOLINE                      |       |                |        |                    | 2     | 2.00             | x | 3.40 | 12010-G3411<br>12010-G3421<br>12010-H9261   | TOTAL CLEARANCE            |                   |          |            | 63.00 mm          |  |
|                               |       |                |        |                    | 3     |                  |   |      |   | mm                         |                   |          |            |                   |  |
|                               |       |                |        |                    | O1    | 4.00             | x | 3.30 |   | Measure for CYL Clearance  |                   |          | 19.00 mm   |                   |  |
|                               |       |                |        |                    | O2    |                  |   |      |   | mm                         |                   |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   | from bottom of Skirt.      |                   |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      | <br>10  | CirClip                    | SURFACE TREATMENT |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   | NONE                       | HEAD:             | NONE     |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   |                            | SKIRT:            | NONE     |            |                   |  |
| J15                           | 4     | 1500           | 77.95  | SWN30033ZZ         | 1     | 2.00             | x | 3.30 | 11-248  | 77.95                      | 79.30             | 39.80    |            |                   |  |
| GASOLINE                      |       |                |        |                    | 2     | 2.00             | x | 3.70 | 12010-01W02<br>12010-01W12<br>12010-E3002   | TOTAL CLEARANCE            |                   |          |            | 66.50 mm          |  |
|                               |       |                |        |                    | 3     |                  |   |      |   | mm                         |                   |          |            |                   |  |
|                               |       |                |        |                    | O1    | 4.00             | x | 3.00 |   | Measure for CYL Clearance  |                   |          | 21.00 mm   |                   |  |
|                               |       |                |        |                    | O2    |                  |   |      |   | mm                         |                   |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   | from bottom of Skirt.      |                   |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      | <br>01 | CirClip                    | SURFACE TREATMENT |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   | NONE                       | HEAD:             | NONE     |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   | T03                        | SKIRT:            | NONE     |            |                   |  |
| J15                           | 4     | 1500           | 77.95  | SWN30033ZX         | 1     | 2.00             | x | 2.85 | 11-248  | 77.95                      | 79.30             | 39.80    |            |                   |  |
| GASOLINE                      |       |                |        |                    | 2     | 2.00             | x | 3.70 | 12010-01W02<br>12010-01W12<br>12010-E3002   | TOTAL CLEARANCE            |                   |          |            | 66.50 mm          |  |
|                               |       |                |        |                    | 3     |                  |   |      |   | mm                         |                   |          |            |                   |  |
|                               |       |                |        |                    | O1    | 4.00             | x | 3.00 |   | Measure for CYL Clearance  |                   |          | 21.00 mm   |                   |  |
|                               |       |                |        |                    | O2    |                  |   |      |   | mm                         |                   |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   | from bottom of Skirt.      |                   |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      | <br>01 | CirClip                    | SURFACE TREATMENT |          |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   | NONE                       | HEAD:             | NONE     |            |                   |  |
|                               |       |                |        |                    |       |                  |   |      |   | T03                        | SKIRT:            | NONE     |            |                   |  |

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| NOA PISTON RING SPECIFICATION |       |                |        |  |       |                  |      |      |  | NOA PISTON SPECIFICATION |                                   |          |            |                          |          |      |
|-------------------------------|-------|----------------|--------|--|-------|------------------|------|------|--|--------------------------|-----------------------------------|----------|------------|--------------------------|----------|------|
| ENGINE MODEL                  | C Y L | ENGINE SIZE CC | DIA mm | PISTON RING PART #   | P S T | PISTON RING B mm | x    | T mm | PISTON PART #  | PISTON INFORMATION       |                                   |          |            | PISTON PIN LENGTH        |          |      |
| FUEL                          |       |                |        | OEM #  |       |                  |      |      | OEM #  | BORE mm                  | LENGTH mm                         | COMP. mm | + DIST. mm | DIAMETER                 |          |      |
| <b>NISSAN</b>                 |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          |          |      |
| H20                           | 4     | 1982           | 87.20  | SWN30069ZZ   | 1     | 2.00             | x    | 4.05 | 11-247   | 87.20                    | 84.00                             | 41.00    | -          | 1.60                     | 73.00 mm |      |
| GASOLINE                      |       |                |        | 12033-R9000<br>12033-Y4460<br>12033-R9023  | 2     | 2.50             | x    | 4.05 | 12010-74001  | <b>TOTAL CLEARANCE</b>   |                                   |          |            |                          |          |      |
|                               |       |                |        |  | 3     |                  |      |      |  |                          | mm                                |          |            |                          |          |      |
|                               |       |                |        |  |       | O1               | 4.00 | x    | 3.85   | 12010-R9001              | <b>Measure for CYL Clearance</b>  |          |            |                          | 22.00 mm |      |
|                               |       |                |        |  |       | O2               |      |      |  |                          | mm<br>from bottom of Skirt.       |          |            |                          |          |      |
|                               |       |                |        |  |       |                  |      |      | <br>10    |                          |                                   |          | CirClip    | <b>SURFACE TREATMENT</b> |          |      |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          |          |      |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          | SKIRT:   | NONE |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          |          |      |
| H25                           | 4     | 2472           | 92.00  | SWN30069ZZ   | 1     | 2.00             | x    |      | 11-251   | 92.00                    | 71.00                             | 36.00    | -          | 7.30                     | 72.00 mm |      |
| GASOLINE                      |       |                |        |  | 2     | 2.50             | x    |      | 12010-60K00  | <b>TOTAL CLEARANCE</b>   |                                   |          |            |                          |          |      |
|                               |       |                |        |  | 3     |                  |      |      |  |                          | mm                                |          |            |                          |          |      |
|                               |       |                |        |  |       | O1               | 4.00 | x    |  |                          | <b>Measure for CYL Clearance</b>  |          |            |                          | 21.00 mm |      |
|                               |       |                |        |  |       | O2               |      |      |  |                          | mm<br>from bottom of Skirt.       |          |            |                          |          |      |
|                               |       |                |        |  |       |                  |      |      | <br>10   |                          |                                   |          | CirClip    | <b>SURFACE TREATMENT</b> |          |      |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          |          |      |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          | SKIRT:   | NONE |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          |          |      |
| SD22                          | 4     | 2164           | 83.00  | NA   | 1     | 2.50             | x    |      | 11-3249  | 83.00                    | 90.00                             | 48.00    | -          | 0.60                     | 71.00 mm |      |
| DIESEL                        |       |                |        |  | 2     | 2.00             | x    |      | 12010-R8110  | <b>TOTAL CLEARANCE</b>   |                                   |          |            | 2.00                     |          |      |
|                               |       |                |        |  | 3     | 2.00             | x    |      |  |                          | mm                                |          |            |                          |          |      |
|                               |       |                |        |  |       | O1               | 4.00 | x    |  |                          | <b>Measure for CYL Clearance</b>  |          |            |                          | 26.00 mm |      |
|                               |       |                |        |  |       | O2               |      |      |  |                          | mm<br>from bottom of Skirt.       |          |            |                          |          |      |
|                               |       |                |        |  |       |                  |      |      | <br>172 |                          |                                   |          | CirClip    | <b>SURFACE TREATMENT</b> |          |      |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          |          |      |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          | SKIRT:   | NONE |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          |          |      |
| SD22                          | 4     | 2164           | 83.00  | SDN31027ZZ   | 1     | 2.50             | x    | 3.50 | 11-068   | 83.00                    | 90.00                             | 48.00    | -          | 2.00                     | 71.00 mm |      |
| DIESEL                        |       |                |        | 12033-R8100<br>12033-R8103<br>12033-R8104<br>12033-R8110<br>12033-R8112<br>12033-R8114 | 2     | 2.00             | x    | 3.40 | 12010-36W10  | <b>TOTAL CLEARANCE</b>   |                                   |          |            | 0.50                     |          |      |
|                               |       |                |        |  | 3     |                  |      |      |  |                          | 0.10 mm                           |          |            |                          |          |      |
|                               |       |                |        |  |       | O1               | 4.50 | x    | 2.80   | 12010-R8111              | <b>Measure for CYL Clearance</b>  |          |            |                          | 26.00 mm |      |
|                               |       |                |        |  |       | O2               |      |      |  |                          | 15.00 mm<br>from bottom of Skirt. |          |            |                          |          |      |
|                               |       |                |        |  |       |                  |      |      |         |                          |                                   |          | CirClip    | <b>SURFACE TREATMENT</b> |          |      |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          |          |      |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          | SKIRT:   | NONE |
|                               |       |                |        |  |       |                  |      |      |  |                          |                                   |          |            |                          |          |      |

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| NOA PISTON RING SPECIFICATION |       |                |        |  |       |                  |   |      |  | NOA PISTON SPECIFICATION  |           |          |            |                   |          |
|-------------------------------|-------|----------------|--------|--|-------|------------------|---|------|--|---------------------------|-----------|----------|------------|-------------------|----------|
| ENGINE MODEL                  | C Y L | ENGINE SIZE CC | DIA mm | PISTON RING PART #   | P S T | PISTON RING B mm | x | T mm | PISTON PART #  | PISTON INFORMATION        |           |          |            | PISTON PIN LENGTH |          |
| FUEL                          |       |                |        | OEM #  |       |                  |   |      | OEM #  | BORE mm                   | LENGTH mm | COMP. mm | + DIST. mm | DIAMETER          |          |
| <b>NISSAN</b>                 |       |                |        |  |       |                  |   |      |  |                           |           |          |            |                   |          |
| SD22                          | 4     | 2164           | 83.00  | SDN31027ZZ   | 1     | 2.50             | x | 3.50 | DISCONTINUE  | 83.00                     | 90.00     | 48.00    | -          | 0.60              | 71.00 mm |
| DIESEL                        |       |                |        | 12033-R8100<br>12033-R8103<br>12033-R8104<br>12033-R8110<br>12033-R8112<br>12033-R8114   |       |                  |   |      | 12010-J5310<br>12010-Y1411<br>12010-Y5210<br>12010-Y5211 | TOTAL CLEARANCE           |           |          | -          | 2.00              |          |
|                               |       |                |        |  |       |                  |   |      |  | mm                        |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  | Measure for CYL Clearance |           |          | -          |                   | 26.00 mm |
|                               |       |                |        |  |       |                  |   |      |  | mm                        |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  | from bottom of Skirt.     |           |          | -          |                   | 26.00 mm |
|                               |       |                |        |  |       |                  |   |      |  |                           |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           | HEAD:     | NONE     |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           | SKIRT:    | NONE     |            |                   |          |
| SD22                          | 4     | 2164           | 83.00  | SJN31003ZZ   | 1     | 2.50             | x | 3.50 | DISCONTINUE  | 83.00                     | 90.00     | 48.00    | -          | 0.60              | 71.00 mm |
| DIESEL                        |       |                |        | 12033-76201<br>12033-76202<br>12033-76203<br>12033-76204<br>12033-V1310<br>12033-Y1400<br>12033-Y1401<br>12033-Y1402<br>12033-Y1403<br>12033-Y1404<br>12033-Y1410<br>12033-Y3010 |       |                  |   |      | 12010-J5312  | TOTAL CLEARANCE           |           |          | -          | 2.00              |          |
|                               |       |                |        |  |       |                  |   |      |  | mm                        |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  | Measure for CYL Clearance |           |          | -          |                   | 26.00 mm |
|                               |       |                |        |  |       |                  |   |      |  | mm                        |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  | from bottom of Skirt.     |           |          | -          |                   | 26.00 mm |
|                               |       |                |        |  |       |                  |   |      |  |                           |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           | HEAD:     | NONE     |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           | SKIRT:    | NONE     |            |                   |          |
| SD22                          | 4     | 2164           | 83.00  | SJN31003ZX   | 1     | 2.50             | x | 3.50 | DISCONTINUE  | 83.00                     | 90.00     | 48.00    | -          | 0.60              | 71.00 mm |
| DIESEL                        |       |                |        | 12033-76201<br>12033-76202<br>12033-76203<br>12033-76204<br>12033-V1310<br>12033-Y1400<br>12033-Y1401<br>12033-Y1402<br>12033-Y1403<br>12033-Y1404<br>12033-Y1410<br>12033-Y3010 |       |                  |   |      | 12010-J5312  | TOTAL CLEARANCE           |           |          | -          | 2.00              |          |
|                               |       |                |        |  |       |                  |   |      |  | mm                        |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  | Measure for CYL Clearance |           |          | -          |                   | 26.00 mm |
|                               |       |                |        |  |       |                  |   |      |  | mm                        |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  | from bottom of Skirt.     |           |          | -          |                   | 26.00 mm |
|                               |       |                |        |  |       |                  |   |      |  |                           |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           | HEAD:     | NONE     |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           | SKIRT:    | NONE     |            |                   |          |
| Z24                           | 4     | 2389           | 89.00  | SWN30059ZZ   | 1     | 1.50             | x | 3.30 | 11-070   | 89.00                     | 70.40     | 33.80    | -          | 4.00              | 66.50 mm |
| GASOLINE                      |       |                |        | 12033-10W00<br>12033-10W10   |       |                  |   |      | 12010-30W01<br>12010-30W11                               | TOTAL CLEARANCE           |           |          | -          |                   |          |
|                               |       |                |        |  |       |                  |   |      |  | -0.04 mm                  |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  | Measure for CYL Clearance |           |          | -          |                   | 21.00 mm |
|                               |       |                |        |  |       |                  |   |      |  | 10.00 mm                  |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  | from bottom of Skirt.     |           |          | -          |                   | 21.00 mm |
|                               |       |                |        |  |       |                  |   |      |  |                           |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           |           |          |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           | HEAD:     | NONE     |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           | SKIRT:    | NONE     |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           | NONE      | HEAD:    | NONE       |                   |          |
|                               |       |                |        |  |       |                  |   |      |  |                           | SKIRT:    | NONE     |            |                   |          |
|                               |       |                |        |  |       |                  |   |      |  | C17                       |           |          |            |                   |          |

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|-------------------------------|----------|----------------|--------|--------------------|------------|------------------|------|------|---------------|----------------------------|--------------------------------|----------|-------------------|-------------------|----------|
| ENGINE MODEL                  | C Y L    | ENGINE SIZE CC | DIA mm | PISTON RING PART # | P S T      | PISTON RING B mm | x    | T mm | PISTON PART # | PISTON INFORMATION BORE mm | LENGTH mm                      | COMP. mm | + DIST. mm        | PISTON PIN LENGTH |          |
| FUEL                          |          |                |        | OEM #              |            |                  |      |      | OEM #         |                            |                                |          |                   | DIAMETER          |          |
| <b>NISSAN</b>                 | Z24i     | 4              | 2389   | 89.00              | SWN30085ZZ | 1                | 2.00 | x    | 3.10          | 11-238                     | 89.00                          | 70.40    | 33.80             | -                 | 4.00     |
|                               | GASOLINE |                |        |                    |            |                  |      |      |               |                            | TOTAL CLEARANCE                |          |                   |                   | 66.50 mm |
|                               |          |                |        |                    |            |                  |      |      |               |                            | -0.04 mm                       |          |                   |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               |                            | Measure for CYL Clearance      |          |                   |                   | 21.00 mm |
|                               |          |                |        |                    |            |                  |      |      |               |                            | 10.00 mm from bottom of Skirt. |          |                   |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               |                            |                                |          | CirClip           | SURFACE TREATMENT |          |
|                               |          |                |        |                    |            |                  |      |      |               | NONE                       |                                |          | HEAD:             | NONE              |          |
|                               |          |                |        |                    |            |                  |      |      |               | C17                        |                                |          | SKIRT:            | NONE              |          |
|                               | SD25     | 4              | 2488   | 89.00              | SDN31023ZZ | 1                | 2.50 | x    | 3.50          | DISCONTINUE                | 89.00                          | 90.00    | 48.20             | -                 | 0.60     |
|                               | DIESEL   |                |        |                    |            |                  |      |      |               |                            | TOTAL CLEARANCE                |          |                   |                   | 74.00 mm |
|                               |          |                |        |                    |            |                  |      |      |               | mm                         |                                |          |                   |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               | Measure for CYL Clearance  |                                |          |                   | 26.00 mm          |          |
|                               |          |                |        |                    |            |                  |      |      |               | mm from bottom of Skirt.   |                                |          |                   |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               |                            |                                | CirClip  | SURFACE TREATMENT |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               |                            |                                | HEAD:    | NONE              |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               |                            |                                | SKIRT:   | NONE              |                   |          |
| SD25                          | 4        | 2488           | 89.00  | SDN31023ZZ         | 1          | 2.00             | x    | 3.10 | DISCONTINUE   | 89.00                      | 90.00                          | 48.20    | -                 | 0.60              |          |
| DIESEL                        |          |                |        |                    |            |                  |      |      |               | TOTAL CLEARANCE            |                                |          |                   | 74.00 mm          |          |
|                               |          |                |        |                    |            |                  |      |      |               | mm                         |                                |          |                   |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               | Measure for CYL Clearance  |                                |          |                   | 26.00 mm          |          |
|                               |          |                |        |                    |            |                  |      |      |               | mm from bottom of Skirt.   |                                |          |                   |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               |                            |                                | CirClip  | SURFACE TREATMENT |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               |                            |                                | HEAD:    | NONE              |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               |                            |                                | SKIRT:   | NONE              |                   |          |
| SD33                          | 6        | 3246           | 83.00  | SJN31004ZZ         | 1          | 2.50             | x    | 3.50 | NA            | 83.00                      |                                |          | -                 |                   |          |
| DIESEL                        |          |                |        |                    |            |                  |      |      |               | TOTAL CLEARANCE            |                                |          |                   | mm                |          |
|                               |          |                |        |                    |            |                  |      |      |               | mm                         |                                |          |                   |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               | Measure for CYL Clearance  |                                |          |                   | mm                |          |
|                               |          |                |        |                    |            |                  |      |      |               | mm from bottom of Skirt.   |                                |          |                   |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               |                            |                                | CirClip  | SURFACE TREATMENT |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               |                            |                                | HEAD:    |                   |                   |          |
|                               |          |                |        |                    |            |                  |      |      |               |                            |                                | SKIRT:   |                   |                   |          |

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|-------------------------------|-------|----------------|--------|---|-------|------------------|---|------|--------------------------|----------------------------|-----------|-------------------|------------|-------------------|----------|
| ENGINE MODEL                  | C Y L | ENGINE SIZE CC | DIA mm | PISTON RING PART #  | P S T | PISTON RING B mm | x | T mm | PISTON PART #            | PISTON INFORMATION BORE mm | LENGTH mm | COMP. mm          | + DIST. mm | PISTON PIN LENGTH |          |
| FUEL                          |       |                |        | OEM #   |       |                  |   |      | OEM #                    |                            |           |                   |            | DIAMETER          |          |
| <b>NISSAN</b>                 |       |                |        |   |       |                  |   |      |                          |                            |           |                   |            |                   |          |
| SD33T                         | 6     | 3246           | 83.00  | SDN31028ZZ  | 1     | 2.50             | x | 3.50 | DISCONTINUE              | 83.00                      | 80.00     | 48.00             | -          | 0.70              | 68.00 mm |
| DIESEL                        |       |                |        | 12033-C8704   | 2     | 2.00             | x | 3.40 | 12010-C8602              | TOTAL CLEARANCE            |           |                   | -          | 2.00              |          |
|                               |       |                |        |   | 3     |                  |   |      | mm                       |                            |           |                   |            |                   |          |
|                               |       |                |        |   | O1    | 4.00             | x | 2.8  | 12010-C8701              | Measure for CYL Clearance  |           |                   |            |                   |          |
|                               |       |                |        |   | O2    |                  |   |      | mm from bottom of Skirt. |                            |           |                   |            |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          | CirClip                    |           | SURFACE TREATMENT |            |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          |                            |           | HEAD:             | NONE       |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          | CirClip                    |           | SKIRT:            | NONE       |                   |          |
| P40                           | 6     | 3956           | 85.69  | SWN30022ZZ  | 1     | 2.50             | x | 3.70 | NA                       | 85.69                      |           |                   | -          |                   | mm       |
| GASOLINE                      |       |                |        | 12033-58003<br>12033-58004<br>12033-58005<br>12033-C6000<br>12033-C6011 | 2     | 2.50             | x | 3.70 |                          | TOTAL CLEARANCE            |           |                   | -          |                   |          |
|                               |       |                |        |   | 3     |                  |   |      | mm                       |                            |           |                   |            |                   |          |
|                               |       |                |        |   | O1    | 4.76             | x | 4.05 |                          | Measure for CYL Clearance  |           |                   |            |                   |          |
|                               |       |                |        |   | O2    |                  |   |      | mm from bottom of Skirt. |                            |           |                   |            |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          | CirClip                    |           | SURFACE TREATMENT |            |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          | CirClip                    |           | HEAD:             |            |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          | CirClip                    |           | SKIRT:            |            |                   |          |
| PPU240                        | 6     | 3956           | 85.69  | SWN30022ZZ  | 1     | 2.50             | x | 3.70 | NA                       | 85.69                      |           |                   | -          |                   | mm       |
| GASOLINE                      |       |                |        | 12033-58003<br>12033-58004<br>12033-58005<br>12033-C6000<br>12033-C6011 | 2     | 2.50             | x | 3.70 |                          | TOTAL CLEARANCE            |           |                   | -          |                   |          |
|                               |       |                |        |   | 3     |                  |   |      | mm                       |                            |           |                   |            |                   |          |
|                               |       |                |        |   | O1    | 4.76             | x | 4.05 |                          | Measure for CYL Clearance  |           |                   |            |                   |          |
|                               |       |                |        |   | O2    |                  |   |      | mm from bottom of Skirt. |                            |           |                   |            |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          | CirClip                    |           | SURFACE TREATMENT |            |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          | CirClip                    |           | HEAD:             |            |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          | CirClip                    |           | SKIRT:            |            |                   |          |
| PPU241                        | 6     | 3956           | 85.69  | SWN30022ZZ  | 1     | 2.50             | x | 3.70 | NA                       | 85.69                      |           |                   | -          |                   | mm       |
| GASOLINE                      |       |                |        | 12033-58003<br>12033-58004<br>12033-58005<br>12033-C6000<br>12033-C6011 | 2     | 2.50             | x | 3.70 |                          | TOTAL CLEARANCE            |           |                   | -          |                   |          |
|                               |       |                |        |   | 3     |                  |   |      | mm                       |                            |           |                   |            |                   |          |
|                               |       |                |        |   | O1    | 4.76             | x | 4.05 |                          | Measure for CYL Clearance  |           |                   |            |                   |          |
|                               |       |                |        |   | O2    |                  |   |      | mm from bottom of Skirt. |                            |           |                   |            |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          | CirClip                    |           | SURFACE TREATMENT |            |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          | CirClip                    |           | HEAD:             |            |                   |          |
|                               |       |                |        |   |       |                  |   |      |                          | CirClip                    |           | SKIRT:            |            |                   |          |

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|-------------------------------|----------|----------------|--------|----------------------------|-------------------|------------------|------|------|----------------------------|----------------------------------|----------------------------------|----------------|--------------------------|--------------------------|-------------|--|
| ENGINE MODEL                  | C Y L    | ENGINE SIZE CC | DIA mm | PISTON RING PART #         | P S T             | PISTON RING B mm | x    | T mm | PISTON PART #              | PISTON INFORMATION BORE mm       | LENGTH mm                        | COMP. mm       | + DIST. mm               | PISTON PIN LENGTH        |             |  |
| FUEL                          |          |                |        | OEM #                      |                   |                  |      |      | OEM #                      |                                  |                                  |                |                          | DIAMETER                 |             |  |
| <b>NISSAN</b>                 | TB42     | 6              | 4169   | 96.00                      | <b>SWN30122ZZ</b> | 1                | 2.00 | x    | 3.30                       | <b>11-3299</b>                   | 96.00                            | 90.00          | 40.50                    |                          |             |  |
|                               | GASOLINE |                |        |                            | 12033-03J00       | 2                | 2.00 | x    | 4.20                       | 12010-03J61                      | <b>TOTAL CLEARANCE</b>           |                |                          |                          | 76.00 mm    |  |
|                               |          |                |        |                            |                   | 3                |      |      |                            |                                  |                                  | -0.04 mm       |                          |                          |             |  |
|                               |          |                |        |                            |                   | O1               | 4.00 | x    | 3.25                       |                                  | <b>Measure for CYL Clearance</b> |                |                          |                          | 23.00 mm    |  |
|                               |          |                |        |                            |                   | O2               |      |      |                            |                                  | mm from bottom of Skirt.         |                |                          |                          |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                | <b>CirClip</b>           | <b>SURFACE TREATMENT</b> |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          |                          | HEAD: NONE  |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          |                          | SKIRT: NONE |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          |                          |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          |                          |             |  |
| TD42                          | 6        | 4169           | 96.00  | <b>SDN31052ZZ</b>          | 1                 | 2.50             | x    | 4.00 | <b>DISCONTINUE</b>         | 96.00                            | 87.00                            | 50.20          | -                        | 1.50                     |             |  |
| DIESEL                        |          |                |        | 12033-06J10<br>12033-06J11 | 2                 | 2.00             | x    | 4.00 | 12010-43G02<br>12010-43G12 | <b>TOTAL CLEARANCE</b>           |                                  |                |                          | 80.00 mm                 |             |  |
|                               |          |                |        |                            | 3                 |                  |      |      |                            |                                  | mm                               |                |                          |                          |             |  |
|                               |          |                |        |                            | O1                | 4.00             | x    | 4.15 |                            | <b>Measure for CYL Clearance</b> |                                  |                |                          | 28.00 mm                 |             |  |
|                               |          |                |        |                            | O2                |                  |      |      |                            | mm from bottom of Skirt.         |                                  |                |                          |                          |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  | <b>CirClip</b> | <b>SURFACE TREATMENT</b> |                          |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          | HEAD: NONE               |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          | SKIRT: NONE              |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          |                          |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          |                          |             |  |
| TD42                          | 6        | 4169           | 96.00  | <b>SDN31052ZX</b>          | 1                 | 2.50             | x    | 4.00 | <b>DISCONTINUE</b>         | 96.00                            | 87.00                            | 50.20          | -                        | 1.50                     |             |  |
| DIESEL                        |          |                |        | 12033-06J10<br>12033-06J11 | 2                 | 2.00             | x    | 4.00 | 12010-43G02<br>12010-43G12 | <b>TOTAL CLEARANCE</b>           |                                  |                |                          | 80.00 mm                 |             |  |
|                               |          |                |        |                            | 3                 |                  |      |      |                            |                                  | mm                               |                |                          |                          |             |  |
|                               |          |                |        |                            | O1                | 4.00             | x    | 4.15 |                            | <b>Measure for CYL Clearance</b> |                                  |                |                          | 28.00 mm                 |             |  |
|                               |          |                |        |                            | O2                |                  |      |      |                            | mm from bottom of Skirt.         |                                  |                |                          |                          |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  | <b>CirClip</b> | <b>SURFACE TREATMENT</b> |                          |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          | HEAD: NONE               |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          | SKIRT: NONE              |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          |                          |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          |                          |             |  |
| FD6                           | 6        | 5654           | 100.00 | <b>SDN31029ZZ</b>          | 1                 | 3.00             | x    | 4.20 | <b>DISCONTINUE</b>         | 100.00                           | 109.20                           | 65.50          | -                        | 11.00                    |             |  |
| DIESEL                        |          |                |        | 12040-Z5028                | 2                 | 2.00             | x    | 4.20 | 12010-Z5576                | <b>TOTAL CLEARANCE</b>           |                                  |                |                          | 85.00 mm                 |             |  |
|                               |          |                |        |                            | 3                 |                  |      |      |                            |                                  | mm                               |                |                          |                          |             |  |
|                               |          |                |        |                            | O1                | 4.50             | x    | 4.50 |                            | <b>Measure for CYL Clearance</b> |                                  |                |                          | 34.00 mm                 |             |  |
|                               |          |                |        |                            | O2                |                  |      |      |                            | mm from bottom of Skirt.         |                                  |                |                          |                          |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  | <b>CirClip</b> | <b>SURFACE TREATMENT</b> |                          |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          | HEAD: NONE               |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          | SKIRT: NONE              |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          |                          |             |  |
|                               |          |                |        |                            |                   |                  |      |      |                            |                                  |                                  |                |                          |                          |             |  |



# FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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| NOA PISTON RING SPECIFICATION |       |                |        |                            |       |             |   |      |               | NOA PISTON SPECIFICATION         |           |                          |            |            |          |
|-------------------------------|-------|----------------|--------|----------------------------|-------|-------------|---|------|---------------|----------------------------------|-----------|--------------------------|------------|------------|----------|
| ENGINE MODEL                  | C Y L | ENGINE SIZE CC | DIA mm | PISTON RING PART #         | P S T | PISTON RING |   |      | PISTON PART # | PISTON INFORMATION               |           |                          |            | PISTON PIN |          |
| FUEL                          |       |                |        | OEM #                      |       | B mm        | x | T mm | OEM #         | BORE mm                          | LENGTH mm | COMP. mm                 | + DIST. mm | LENGTH     |          |
| <b>NISSAN</b>                 |       |                |        |                            |       |             |   |      |               |                                  |           |                          |            |            |          |
| FD6T                          | 6     | 5654           | 100.00 | SDN31026ZZ                 | 1     | 3.00        | x | 4.20 | DISCONTINUE   | 100.00                           | 109.20    | 65.50                    | -          | 11.00      | 85.00 mm |
| DIESEL                        |       |                |        | 12040-Z5528<br>12033-Z5504 | 2     | 2.00        | x | 4.20 | 12010-Z5600   | <b>TOTAL CLEARANCE</b>           |           |                          |            | - 18.50    |          |
|                               |       |                |        |                            | 3     |             |   |      |               | mm                               |           |                          |            |            |          |
|                               |       |                |        |                            | O1    | 4.50        | x | 4.50 |               | <b>Measure for CYL Clearance</b> |           |                          |            | 34.00 mm   |          |
|                               |       |                |        |                            | O2    |             |   |      |               | mm<br>from bottom of Skirt.      |           |                          |            |            |          |
|                               |       |                |        |                            |       |             |   |      |               | CirClip                          |           | <b>SURFACE TREATMENT</b> |            |            |          |
|                               |       |                |        |                            |       |             |   |      |               |                                  |           | HEAD:                    | NONE       |            |          |
|                               |       |                |        |                            |       |             |   |      |               |                                  |           | SKIRT:                   | NONE       |            |          |